

## 5

As explained above, according to the present invention, the keyboard is tilted forwardly and downwardly toward the user of the computer by raising the rear end of the keyboard upwardly with a predetermined angle, centering the pivotal hinge portion of the front side of the keyboard, when closing 5 the cover of portable computer.

In addition, the heat generated from various electric components on the main PCB during driving the system can be radiated naturally less than a datum point through ventilation holes established on the bottom side of the keyboard cage and ventilation space formed between the keyboard cage and the bottom side of the keyboard to keep the temperature of the interior of the base, thus protecting electric components that may be deteriorated by the heat. 10

It will be apparent to those skilled in the art that various modifications and variations can be made in the apparatus for tilting the keyboard of portable computer of the present invention without departing from the spirit or scope of the invention. Thus, it is intended that the present invention covers the modifications and variations of this invention 20 provided they come within the scope of the appended claims and their equivalents.

What is claimed is:

1. An apparatus for tilting a keyboard of a portable computer comprising: 25

a base on which a keyboard cage is formed with hinge means provided at a front portion of said keyboard cage, said keyboard being rotably joined by said hinge means to said keyboard cage, and at least one guide slot

## 6

being defined at a rear portion of said base and at least one protruding opening being defined at said rear portion of said base;

a cover rotably engaged with said base by hinge means, and said cover including protruding members at said rear portions of said base and said cover, and at least one sector gear being formed on a circumferential surface of said protruding member of said cover; and,

at least one slider mounted at said rear portion of said base and being slidably moved forwardly and rearwardly in a rectilinear direction within said base, said slider including a rack gear on a top side thereof and engaging with said sector gear on a corresponding protruding member of the cover, and a slanted edge of said slider having a predetermined incline on a front side thereof and to be in contact with a rear bottom portion of said keyboard, wherein said slider moves forwardly and rearwardly through at least one guide slot at said rear portion of said base and said sector gear of said cover and said rack gear of said slider are engaged with each other within said protruding opening at said rear portion of said base; and

wherein, said apparatus maintains the keyboard in a tilted position at a desired angle or horizontally by moving the slider forwardly and rearwardly according to the rotary motion of the sector gear of said cover.

\* \* \* \* \*